Power Strip 500ml

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

* **1.1. Product identifier**

Trade name/designation:

Power Strip 500ml

Article No.:
T495001

UFI:
AFC5-2RPP-6HJ5-4ET7

* **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture:
Surface cleaner

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

* **2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	Calculation method.

* **2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:

GHS05
Corrosion

GHS02
Flame

Signal word: Danger

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Hazard components for labelling:
1,3-dioxolane; 2-aminoethanol

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.

Supplemental hazard information: none

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Precautionary statements Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements Disposal	
P501	Dispose of the contents / container in accordance with local / regional / national / international regulations.

Additional information:
Formation of explosive mixtures possible without adequate ventilation.

2.3. Other hazards

Adverse environmental effects:
Determination of endocrine disrupting properties:
Butanone - List II

Other adverse effects:
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

*

3.2. Mixtures

Description:
Active ingredient mixture with propellant gas

Additional information:
Regulation (EC) No. 648/2004 [Detergents regulation]:
aliphatic hydrocarbons: >=15<30%
non-ionic surfactants, anionic surfactants: <5%
Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 109-87-5 EC No.: 203-714-2 REACH No.: 01-2119664781-31	**dimethoxymethane** Flam. Liq. 2 (H225) Danger	50 – < 75 %
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119488876-14	**propane** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger **Acute Toxicity Estimate** ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	10 – < 25 %
CAS No.: 646-06-0 EC No.: 211-463-5 Index No.: 605-017-00-2 REACH No.: 01-2119490744-29	**1,3-dioxolane** Eye Dam. 1 (H318), Flam. Liq. 2 (H225) Danger **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (inhalation, dust/mist) 68.4 mg/L	≥ 3 – < 10 %
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	**propan-2-ol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) > 20 mg/L	2.5 – < 10 %
CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43	**ethanol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225) Danger **Specific concentration limit (SCL)** Eye Irrit. 2; H319: C ≥ 50% **Acute Toxicity Estimate** ATE (oral) 10,470 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 20 mg/L	2.5 – < 10 %
CAS No.: 25322-68-3	**PEG-8** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2.5 – < 10 %
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	**Butane (contains < 0.1% butadiene (203-450-8))** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger **Acute Toxicity Estimate** ATE (inhalation, gases) > 800,000 ppmV ATE (inhalation, vapour) 658 mg/L	1 – < 2.5 %
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3 REACH No.: 01-2119457290-43	**butanone** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066 **Acute Toxicity Estimate** ATE (oral) > 2,193 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) 40 mg/L **Additional information:** EUH066	1 – < 2.5 %

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 141-43-5 EC No.: 205-483-3 REACH No.: 01-2119486455-28	**2-aminoethanol** Acute Tox. 4 (H302, H312, H332), Aquatic Chronic 3 (H412), STOT SE 3 (H335), Skin Corr. 1B (H314) Danger **Specific concentration limit (SCL)** STOT SE 3; H335: C ≥ 5% **Acute Toxicity Estimate** ATE (oral) 1,089 mg/kg ATE (dermal) 1,100 mg/kg ATE (inhalation, vapour) 1.3 mg/L ATE (inhalation, dust/mist) 1.3 mg/L	1 – < 2.5 %
EC No.: 918-481-9 REACH No.: 01-2119457273-39	**Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics** Asp. Tox. 1 (H304) Danger **Acute Toxicity Estimate** ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) > 4,951 mg/L **Additional information:** EUH066	1 – < 2.5 %
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	**Isobutane (with < 0.1 % butadiene (203-450-8))** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger	0.1 – < 1 %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:
Fresh air supply, consult a doctor in case of complaints.

In case of skin contact:
In general, the product is not irritating to skin.

After eye contact:
Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

Following ingestion:
Do not induce vomiting, seek medical help immediately.

4.2. Most important symptoms and effects, both acute and delayed
No data available

4.3. Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water mist, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam

Unsuitable extinguishing media:
Water in full jet

5.2. Special hazards arising from the substance or mixture
No data available

5.3. Advice for firefighters
Special protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear protective equipment. Keep unprotected persons away.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Do not wash away with water or aqueous detergents.

Other information:

Provide adequate ventilation.

6.4. Reference to other sections

Further information on proper storage: see section 7.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Ensure good ventilation/extraction at the workplace.

Fire prevent measures:

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.

Hints on storage assembly:

The official regulations for the storage of pressurised gas packages must be observed.

Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters

Further information on storage conditions:

Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

*

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**dimethoxymethane** CAS No.: 109-87-5 EC No.: 203-714-2	① 1,000 ppm (3,100 mg/m³)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m³)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m³)
MAK (AT)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)
MAK (AT)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**PEG-8** CAS No.: 25322-68-3	① 1,000 mg/m³ ⑤ (einatembare Fraktion, Gewichtsgemittelte Molmasse (Mw) 200-600)
MAK (AT)	**PEG-8** CAS No.: 25322-68-3	② 4,000 mg/m³ ⑤ (einatembare Fraktion, Gewichtsgemittelte Molmasse (Mw) 200-600, max. 4x15 min./Schicht)
MAK (AT)	**Butane (contains < 0.1% butadiene (203-450-8))** CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m³)
MAK (AT)	**Butane (contains < 0.1% butadiene (203-450-8))** CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**butanone** CAS No.: 78-93-3 EC No.: 201-159-0	① 100 ppm (295 mg/m³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**butanone** CAS No.: 78-93-3 EC No.: 201-159-0	② 200 ppm (590 mg/m³) ⑤ (max. 4x30 min./Schicht, kann über die Haut aufgenommen werden) H
IOELV (EU)	**butanone** CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m³) ② 300 ppm (900 mg/m³)
MAK (AT) from 25 Sept 2018	**2-aminoethanol** CAS No.: 141-43-5 EC No.: 205-483-3	② 3 ppm (7.6 mg/m³) ⑤ (max. 4x15 min./Schicht) Sh

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	**2-aminoethanol** CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m³) ② 3 ppm (7.6 mg/m³) ⑤ (may be absorbed through the skin)
MAK (AT) from 11 Sept 2007	**2-aminoethanol** CAS No.: 141-43-5 EC No.: 205-483-3	① 1 ppm (2.5 mg/m³) ⑤ Sh
MAK (AT)	**Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics** EC No.: 918-481-9	① 200 mL/m³ ② 400 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von weniger als 25 %)
MAK (AT)	**Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics** EC No.: 918-481-9	① 170 mL/m³ ② 340 mL/m³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von 25 % oder mehr)
MAK (AT)	**Isobutane (with < 0.1 % butadiene (203-450-8))** CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./SchichtMomentanwert)
MAK (AT)	**Isobutane (with < 0.1 % butadiene (203-450-8))** CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m³)

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	132 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	39 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	22 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	5.7 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	9.6 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	18.15 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	4.52 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	2.62 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5	3.31 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	1,161 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	412 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	31 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	1 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.18 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.51 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	0.28 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	3 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	1.5 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	1.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics EC No.: 918-481-9	2.73 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics EC No.: 918-481-9	5.58 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics EC No.: 918-481-9	0.97 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics EC No.: 918-481-9	0.74 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	14.577 mg/L	① PNEC aquatic, freshwater
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	1.4577 mg/L	① PNEC aquatic, marine water
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	10 mg/L	① PNEC sewage treatment plant
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	13.135 mg/kg	① PNEC sediment, freshwater
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	1.313 mg/kg	① PNEC sediment, marine water
dimethoxymethane CAS No.: 109-87-5 EC No.: 203-714-2	4.654 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release

* **8.2. Exposure controls**

8.2.1. Appropriate engineering controls
No further details. See section 7.

8.2.2. Personal protection equipment

Eye/face protection:
Tight-fitting safety goggles, EN 166

Skin protection:
Hand protection:
Gloves / solvent resistant; Selection of glove material considering breakthrough times, permeation rates and degradation.
Glove material: The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
NBR (Nitrile rubber)
Recommended material thickness: ≥ 0,5 mm
Permeation time (maximum wear duration): For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:
Use protective suit. (EN-13034/6)
Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688 EN13034-6).

Respiratory protection:
In case of inadequate ventilation wear respiratory protection. Filter ABEK/P2

Other protection measures:
General protective and hygienic measures: Wash hands before breaks and after work. General ventilation.

8.2.3. Environmental exposure controls
Use a suitable container to prevent environmental pollution.

SECTION 9: Physical and chemical properties

* **9.1. Information on basic physical and chemical properties**

Appearance

Physical state: Liquid
Form: Aerosol
Colour: According to product designation
Odour: characteristic
flammability: No data available
Odour threshold: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*not applicable*		② Mixture is not polar/aprotic.
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	-44.5 °C		

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Parameter	Value	at °C	① Method ② Remark
Flash point	-97 °C		
Evaporation rate	*No data available*		
Auto-ignition temperature	235 °C		
Upper/lower flammability or explosive limits	0.7 – 19.9 Vol-%		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	0.79 g/cm³	20 °C	
Bulk density	*not applicable*		
Water solubility	Immiscible		
Dynamic viscosity	*No data available*		
Kinematic viscosity	*No data available*		
flammability			② Easily flammable

* **9.2. Other information**

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.
Organic solvents: 98,1 %
Solid content: 52,9 %

9.2.1. Information with regard to physical hazard classes

Aerosols:

Extremely flammable aerosol. Pressurized container: May burst if heated.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L 6 h (Rat)

ethanol CAS No.: 64-17-5 EC No.: 200-578-6	
ATE (oral): 10,470 mg/kg	
LD_{50} oral: >2,000 mg/kg (Rat) IUCLID	
LD_{50} dermal: >2,000 mg/kg (Rat)	
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L (Rat) RTECS	
butanone CAS No.: 78-93-3 EC No.: 201-159-0	
LD_{50} oral: >2,193 mg/kg (Rat)	
LD_{50} dermal: >5,000 mg/kg (Rabbit)	
LC_{50} Acute inhalation toxicity (vapour): 40 mg/L (Mouse)	
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3	
ATE (oral): 1,089 mg/kg	
ATE (dermal): 1,100 mg/kg	
LD_{50} oral: 1,515 mg/kg (Rat)	
LD_{50} dermal: 2,881 mg/kg (Rabbit)	
LC_{50} Acute inhalation toxicity (vapour): 1.3 mg/L 4 h (Rat)	
LC_{50} Acute inhalation toxicity (dust/mist): 1.3 mg/L 4 h (Rat)	
Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics EC No.: 918-481-9	
LD_{50} oral: >5,000 mg/kg (Rat) OESO 401)	
LD_{50} dermal: >5,000 mg/kg (Rabbit)	
LC_{50} Acute inhalation toxicity (vapour): >4,951 mg/L 4 h (Rat) OESO 403	

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye damage.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
Butanone (78-93-3): List II
benzotriazole (95-14-7): List II

SECTION 12: Ecological information

12.1. Toxicity

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC_{50}: >1,000 mg/L 4 d (fish)
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: 9,714 mg/L 1 d (Daphnia magna)
EC_{50}: >1,000 mg/L 2 d (crustaceans)
EC_{50}: >100 mg/L (Algae/water plant, Bacteria)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
LOEC: 1,000 mg/L (Alge)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LC_{50}: >1,000 mg/L 4 d (fish)
LC_{50}: =11,200 mg/L 1 d
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: =275 mg/L 3 d
NOEC: =9.6 mg/L (crustaceans, Ceriodaphnia dubia)
ErC_{50}: >100 mg/L
LC_{50}: 8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe))
EC_{50}: 6,500 mg/L (Algae/water plant, Pseudomonas putida)
NOEC: 250 mg/L (fish, Danio rerio)
ErC_{50}: 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
ErC_{50}: =275 mg/L 3 d (Chlorella vulgaris)
NOEC: 150 mg/L 4 d (fish, Daphnia magna)
butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC_{50}: 2,993 mg/L 4 d (fish, Pimephales promelas) OECD 203
EC_{50}: 308 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
ErC_{50}: 1,972 mg/L 3 d (Algae/water plant, Pseudokirchnerella subcapitata) OECD 201
LC_{50}: 2,993 mg/L 4 d (Pimephales promelas)
EC_{50}: 308 mg/L 2 d (Daphnia magna)
NOEC: 1.15 mg/L (Algae/water plant, Bacteria)
LC_{50}: 2.993 mg/L 4 d (fish, Elritze)
EC_{50}: 2.029 mg/L 4 d (Algae/water plant, Grünalge)
NOEC: 100 mg/L 21 d (Algae/water plant, Wasserfloh)
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
LC_{50}: 349 mg/L 4 d (fish, Cyprinus carpio)
EC_{50}: 2.8 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
NOEC: 0.85 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.85 mg/L 21 d (Daphnia magna)
EC_{50}: 65 mg/L 2 d (Daphnia magna)
EC_{50}: 2.8 mg/L 3 d (Pseudokirchneriella subcapitata)
LC_{50}: 349 mg/L 4 d (Cyprinus carpio)

Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics EC No.: 918-481-9
LC_{50}: 1,000 mg/L 3 d (Algae/water plant)
EC_{50}: 1,000 mg/L 2 d (crustaceans)
EC_{50}: >1,000 mg/L 2 d (DAPHNIA MAGNA)
EC_{50}: >1,000 mg/L 3 d (Selenastrum capricornutum)

Aquatic toxicity:
No further relevant information available.

Assessment/classification:
No further relevant information available.

12.2. Persistence and degradability

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly

Biodegradation:
Not readily biodegradable.

12.3. Bioaccumulative potential

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Log K_{OW}: 0.05
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Log K_{OW}: -0.31
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Log K_{OW}: 0.29

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

1,3-dioxolane CAS No.: 646-06-0 EC No.: 211-463-5
Results of PBT and vPvB assessment: —
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Results of PBT and vPvB assessment: —
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Results of PBT and vPvB assessment: —
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Results of PBT and vPvB assessment: —
2-aminoethanol CAS No.: 141-43-5 EC No.: 205-483-3
Results of PBT and vPvB assessment: —
Hydrocarbons, C10-C13, n-alkanes,isoalkanes, cycloalkanes, <2% aromatics EC No.: 918-481-9
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
For information on endocrine disrupting properties see section 11.

* **12.7. Other adverse effects**

water hazard class 1: slightly hazardous to water
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

* **13.1. Waste treatment methods**

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable

Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
* **14.6. Special precautions for user**			
Special Provisions: 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Tunnel restriction code:** (D) **Remark:** Attention: Gases Transport category 2	**Special Provisions:** 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Remark:** Attention: Gases	**Special Provisions:** 63 | 190 | 277 | 327 | 344 | 381 | 959 **Limited quantity (LQ):** 1L **Excepted Quantities (EQ):** E0 **EmS-No.:** F-D, S-U **Remark:** Attention: Gases Stowage Code: SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS:	**Special Provisions:** A145 | A167 **Limited quantity (LQ):** Y203 **Excepted Quantities (EQ):** E0 **Remark:** Attention: Gases

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
		Category C, Clear of living quarters. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.	

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

* **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

15.1.1. EU legislation

Authorisations:
Directive 2012/18/EU
Named dangerous substances - ANNEX I: None of the ingredients are included.

Restrictions on use:
Seveso category P3a FLAMMABLE AEROSOLS
Quantity threshold (in tons) for use in lower class farms 150t
Quantity threshold (in tons) for use in upper-tier establishments 500t
Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.
Regulation (EC) No 273/2004 on drug precursors: butanone; ethyl methyl ketone (78-93-3)
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: butanone; ethyl methyl ketone (78-93-3)

Other regulations (EU):
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:
• P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:
• Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:
Volatile organic compounds (VOC) content in percent by weight: 739.8 g/L

15.1.2. National regulations
No data available

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
1.2.	Relevant identified uses of the substance or mixture and uses advised against
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
9.2.	Other information
12.7.	Other adverse effects
13.1.	Waste treatment methods
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Limit value / limit values updated: SI

* 16.2. Abbreviations and acronyms

AC	Article Category
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IC_{50}	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
IUCLID	International Uniform Chemical Information Database
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
QSAR	Quantitative Structure-Activity Relationship
REACH	Registration, Evaluation and Authorization of Chemicals

RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

16.3. Key literature references and sources for data
No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	Calculation method.

* 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice
No data available

16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.